BF Kennedy Sound Systems Ltd.
Main Highway - Roaches Line
P.O. Box 191 - South River - Newfoundland
Canada - A0A 3W0
email:admin@bfksound.ca

Tel: (709) 528-1360 www.bfksound.ca Fax: (709) 528-1182

N. S. C. A.
Proud Member of the National Systems Contractors Association

Con. Bay North LTC - Contract Package 3

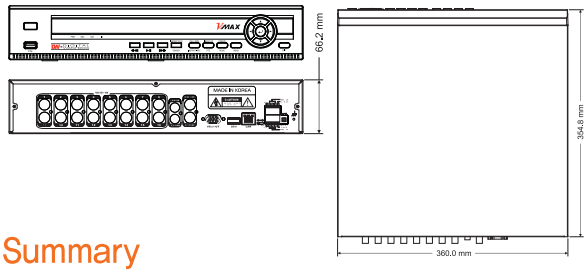
Shop Drawings

Camera System

•	DW-VMAX16500G	Digital Video Recorder
•	DWC-PTZ10X	PTZ camera
•	CE-VX70	Fixed Camera
•	CE-24AC16-8	Power Supply
•	5934A	Siamese Cable (Video & Power)
•	24104L5E-350	Cat 5E PTZ Communications cable

- 4 Sensor Input, 1 Sensor Output
- Screen Saver to Protect Monitor Screen
- Central Management Software up to 128 ch
- Supports Blackberry, iPhone, Android
- Mac Compatible Remote Software
- USB Mouse, IR Remote Control GUI
- Optional External USB DVD RW or HDD available for Backup
- Up to 2 Internal HDD Inputs (8 and 16channels)
- 5 Year Limited Warranty

Dimensions (Unit : mm)



Available Model Numbers

4 Channel	8 Channel	16 Channel
DW-VMAX 4500G	DW-VMAX 8500G	DW-VMAX 16500G
DW-VMAX 41T	DW-VMAX 81T	DW-VMAX 161T
DW-VMAX 42T	DW-VMAX 82T	DW-VMAX 162T
	DW-VMAX 83T	DW-VMAX 163T
	DW-VMAX 84T	DW-VMAX 164T

Summary

The VMAX is the most advanced H.264 embedded digital video recorder ever created. Full D1, 2CIF, CIF the highest possible digital recording quality across multiple channels, up to 120fps at All Resolutions. View and control cameras, alarm inputs, graphic mapping, and status of 128 devices simultaneously through our complimentary CMS software platform. The VMAX is available in 4, 8, or 16 channel configurations with basic storage from 500GB expendable up to 4 terabytes.

Features

- Advanced H.264 Linux Embedded DVR
- Multiplex - Live, Playback, Recording, Backup, Network
- 60fps at D1, 240fps at CIF for 8/16CH Models
- 120fps for All Resolutions 4 Video/1ch Audio
- E-mail Event Notifications
- One Touch Video Backup
- One Touch Reverse Playback
- One Touch Emergency Recording
- Covert Channel
- Call Monitor
- Web Based Client w/ Multi User Access
- Automatic Private IP Addressing
- Simple & Free DDNS Support
- NTP (Network Time Protocol)
- Watermark Images
- DVR Health Check w/ Email Notification
- New Help Screen Menu
- Help Menu on Major Function
- Auto Disk Info Recovery
- Configuration Import/Export
- Auto or Manual Firmware Upgrade Available

Specifications

MODEL		VMAX4	VMAX8	VMAX16
Compression Algorithm		Video : H.264, Audio : G723.1	Video : H.264, Audio : G723.1	
Video	Input	4 Ch	8 Ch	16 Ch
Display Speed (NTSC/ PAL)		120/100 fps	240/200 fps	480/400 fps
Screen Split		1, 4 & PIP	1, 4, 9 & PIP	1, 4, 9, 16 & PIP
Video-Out	Monitor		1 composite & 1 VGA, 1 Spot	monitor output
	VGA Resolution	640x480, 800x600, 1024x768 & 1280x1024 (Selectable)		
Recording Speed (NTSC/PAL)	CIF	120/200 fps	240/200 fps	480/400fps
	2CIF	120/100 fps	120/100 fps	120/100fps
	D1	120/100fps	60/50fps	60/50fps
Recording Resolution		NTSC : 352x240, 720x240, 720x480 / PAL : 352x288, 720x288,720x5756		
Recording Modes		Continuous, Scheduled, Sensor-Activated & Motion Detection Recording		
		Pre & Post Alarm Recording, Panic Recording		
Playback & Search	Speed	x1, x2, x4, x8, x16, x32		
	Function	1, 4 Ch (Multi-Channel Playback)	1, 4, 9 Ch (Multi-Channel Playback)	1, 4, 9, 16 Ch (Multi-Channel Playback)
		Time Bar , Calendar search, Event Search, System Log Search		
Audio Input / Output		1ea Input / 1ea Output		
Alarm Input / Relay Output		4ea / 1ea		
PTZ Control and Port		Virtual Joy-Stick Control on screen by mouse		
		Pan/Tilt/Zoom/Focus/Iris, RS-485 Port		
LAN Network		10/100 Base-Tx Ethernet (RJ45) – Fixed IP, DHCP, DDNS, Auto IP, *& UPnP Support		
Network Transmission	Function	Network Transmission : 240ips@CIF		
		Video Dual-Stream (Local recording & Network Transmission)		
		Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)		
		Remote & E-Mail Notification, Remote System Reboot by IE		
Mobile Device support		iPhone, Blackberry, Android		
Remote Management	Software	Client S/W, CMS (128 Ch), MAC Software		
	Web (IE)	Live Monitoring, Playback & System Configuration		
Back up	External	Local Backup by USB Memory Stick and Network Backup by CMS		
Advanced Functions		Multi-Language, System Upgrade by USB & Network		
		Configuration Import & Export, Watermark, AVI File Backup		
		Warning Alarm for System Over-Temperature		
System Operation		Front Button, IR Remote Controller, USB Mouse		
Power		12V x 3.33A D/C Adaptor	12V x 5A D/C Adaptor	
Storage Temperature and Humidity		-20~60 ℃ / 20~95% RH		
Dimension and Weight		270mx215mx71m	360mx380mx66m	
Operating Temperature and Humidity		5~40 ℃/ 20~80% RH		
Certification		CE & FCC & MIC & WEEE, RoHS		

(*) Specification is subject to change without prior notice

DWC-PTZ10X CAMERA

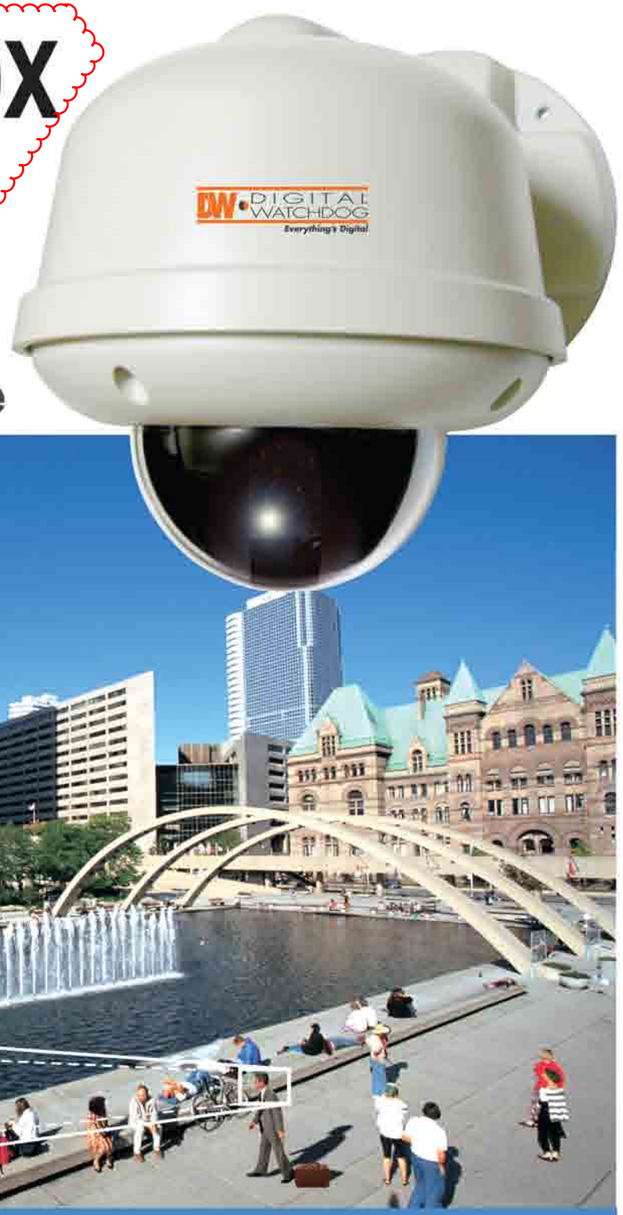
10XPTZ Speed Dome camera

DIGITAL WATCHDOG
Everything's Digital

STAR-LIGHT™

DWC- PTZ10X

100X Power Zoom
(10X Optical, 10X Digital)



Compact Speed Dome

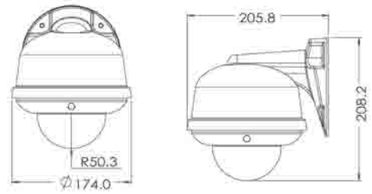
Digital Watchdogs' PTZ10X – 100X (10x's Digital, 10x's Optical) Powerful Zoom PTZ leads the market in performance, size, flexibility, reliability, and cost. Developed with the same top standards of excellence our clients have come to trust over the years, the versatility and performance of this Vector Driven Mini-PTZ is unmatched.

DWC– PTZ10X

10XPTZ Speed Dome camera

STAR-LIGHT™

Dimensions (Unit : mm)



Summary

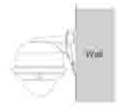
Digital Watchdogs' PTZ10X - 100X (10x's Digital, 10x's Optical) Powerful Zoom PTZ leads the market in performance, size, flexibility, reliability, and cost. Developed with the same top standards of excellence our clients have come to trust over the years, the versatility and performance of this Vector Driven Mini-PTZ is unmatched. DW has raised the bar once again by offering 540 lines of hi-resolution imaging, Star-Light low light capability, built in Privacy Masking, and Automatic True Day & Night capability. When protecting your most important assets, don't settle for anything less than Digital Watchdog Security Products.

Features

- 520 TVL (Color), 570TVL (B/W)
- ¼" CCD, 811(H) 508(V), 410K Pixel
- 10X Optical Zoom (3.8mm~38mm)
- 10x Digital Zoom
- Pan, 0~360 endless
- Pan Speed: 360° per second
- Star Light (x128 shutter speed)
- DNR (digital Noise Deduction)
- Vector drive (Pan/Tilt in same time)
- Auto Day and Night (IR cut Filter)
- RS 485 Communication
- Time and Day schedule
- 127 Preset position
- 4 Privacy Zoon
- 2 Alarm input and 1 Alarm output
- Vandal Proof, Weather Proof
- Heater and fan built in
- Operating temperature, -20°C~50°C (-4°F~122°F)

Accessories

DWC-P10CM Pendant Mount
DWC-P10WM Wall Mount



Wall Mount

Pendant Mount

100X Power Zoom (10X Optical, 10X Digital)

The camera uses a 10X optical zoom, along with a 10X digital zoom, resulting in 100X zooming capability. The 100X Power Zoom combined with the auto focus function makes object identification easier.

Specifications

		DWC-PTZ10X	
Video Signal System		NTSC	PAL
Camera	CCD	1/4" Interline Transfer CCD	
	Max. Pixels	811(H)x508(V) 410K	795(H)x596(V) 470K
	Effective Pixels	768(H)x494(V) 380K	752(H)x582(V) 440K
	Horizontal Res.	500 TV Line(Color), 570 TV Line(B/W)	
	S/N Ratio	50 dB (AGC Off)	
	Zoom	x10 Optical Zoom, x10 Digital Zoom	
	Focal length	F1.8, f=3.8~38mm	
	Min. Illumination	0.7 Lux (Color) / 0. 02 Lux (B/W), 50 IRE	
	Day & Night	Auto / Day / Night(ICR)	
	Focus	Auto / Manual / SemiAuto	
	Iris	Auto / Manual	
	Shutter Speed	x128 ~ 1/120000 sec, Anti Flickerless	
	AGC	Normal / High / Off	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	Low / Middle / High / Off	
	DNR	Low / Middle / High / Off	
Pan/Tilt	Range	Pan : 0-360°(Endless)	
		Tilt : 15 ~ 83°	
	Pan/Tilt Speed	Preset : 360°/sec	
		Manual : 0.05 ~ 360°/sec (proportional to zoom)	
		Scan : 1~ 180°/sec	
	Preset	127 Preset (Label, Camera Image Setting)	
	Pattern	4 Pattern, 1000 commands/Pattern (about 5 minute in normal operations)	
	Scan	8 Scan	
	Group	8 Group (20 action entities per Group)	
General	Other Functions	Auto Flip, Auto Parking, Power Up Action etc.	
	Communication	RS-485	
	Protocol	Auto, Pelco-D, Pelco-P, Samsung selectable	
	Privacy Zone	4 Zone	
	Alarm Input	2 Input	
	Alarm Output	1 Relay Output	
	OSD	Menu / PTZ information etc Support 7 Languages [ENGLISH/ESPAÑOL/FRANÇAIS/DEUTSCH/ITALIANO/РУССКИЙ/PORTUGUÊS]	
	Rated Power**	AC 24V(23W) / DC 12V(26W) / Dual Voltage	
	Dimension	Dome	Ø100.5
		Housing	Ø142 x 84.5(H) mm
	Weight	about 1.85 Kg	
	Operating Temp.	-10°C ~ 50°C	

* Specifications of this product can be subjected to change without notice.
** Check the voltage and current capacity of rated power carefully.

DWC-PTZ10X CAMERA

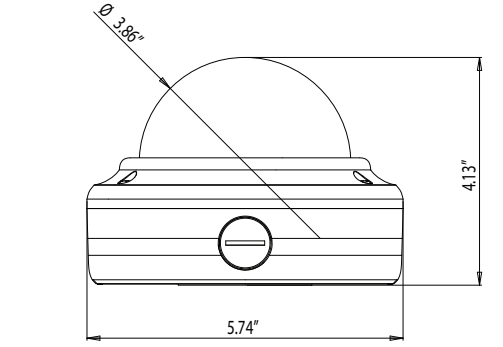
CLINTON Electronics

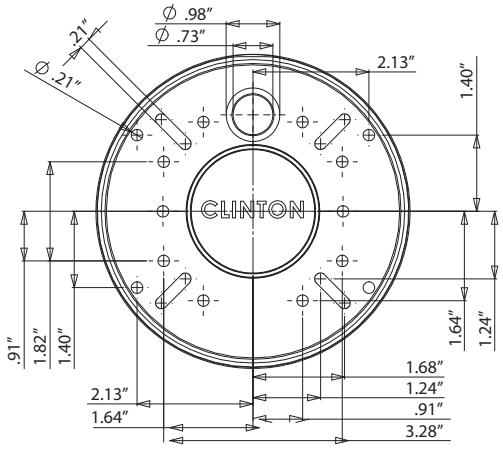
CE-VX70

Vandal X True D/N WDR Dome Camera

- PIXIM 1/3" C-MOS (Seawolf)
- 690 HTVL Equivalent Resolution
- 2.8 ~ 10.5mm TAMRON TDN (F1.2) Lens
- Digital Pixel System® (DPS)
- 120dB Max. of Wide Dynamic Range (WDR)
- Digital Slow Shutter up to 64x
- Motion Adaptave 3D Noise Reduction (DNR)
- OSD Menu Control via Built-in Joystick or Optional CE-REMOTE
- 3-Axis Adjustment
- IP 68 Weather Rating
- Dual Voltage (DC12V / AC24V)
- UL Listed

Dimensions





Recommended Power Supply
All Clinton Electronics Power Supplies

Optional Accessories

CE-VXWB	Wall Mount Bracket
CE-VXRB / CE-VXRW	Black / White Rubber Vandal X Dome Cover
CE-VXDC	Deep Case for Cable Storage
CE-VXRM	Recess Mount Bracket
CE-VXAP	Outdoor Double Gang Box Adaptor Plate
CE-VXPC	Pendant Mount Cap

CE-REMOTE
- Plugs directly into Camera
- Adjusts OSD Functions
- Test Monitor Connection

Specifications

Camera	CE-VX70
Image Sensor	1/3 Inch PIXIM C-MOS SEAWOLF Sensor
Resolution	690 HTVL Equivalent Resolution
Effective Pixels	758 (H) x 540 (V)
Sync System	Internal / Line Lock Selectable
Minimum Illumination	0.1 Lux
Shutter Speed	1/25 ~ 1/30, 720 sec. (f/1.2)
Dynamic Range	120dB (Max.), 102dB (Typical)
AGC Control	Programmable up to 50dB
Lens	2.8 ~ 10.5mm (F1.2) True Day/Night
Video Output	1.0 Vp-p 75Ω
Power Consumption	Max. 240mA (AC24V), Max. 360mA (DC12V)
Power Requirement	DC12V / AC24V
Operating Temperature	-20°F ~ 122°F
Operating Humidity	95%
Weather Rating	IP 68
Dimensions	5.74" (Dia.) x 4.13" (H)
Weight	2.75 lbs.
OSD Menu	**Control with OSD Joystick or CE-REMOTE**
WDR Control	Medium / High / Low / Normal
Exposure	BLC / AGC / Sens-Up
White Balance	ATW / AWB / Manual
Fluorescent	Off / CRR / CRR2
D/N Control	Auto / Off
Sharpness	Slider Control
Saturation	Slider Control
Special	Alarm / Setup Alarm Zone / Sync / Flip / Lens Select
Menu Exit Options	Save & Exit / Default / Cancel

Information in this document is subject to change

DIGITAL PIXEL® SYSTEM FROM PIXIM

RoHS COMPLIANT

c UL us LISTED

Clinton Electronics
6701 Clinton Road
Loves Park, IL 61111

1.800.447.3306 **Sales**
1.800.549.6393 **Support**
1.815.633.8712 **Fax**

www.clintonelectronics.com

Are you looking for the answer to challenging lighting?

Cameras powered by Pixim Seawolf deliver accurate images in real-world scenes, **night and day**, even under challenging, **mixed lighting** conditions. Key specs include: 690 HTVL effective resolution, global electronic shutter, 120 dB max wide dynamic range, 0.1 lux min illumination (color, 30 fps), 0.001 lux min illumination (B&W, DSS On). **Seawolf is the answer to challenging lighting.**

dark.

CCD: Hot spots and blooming

vs.

Pixim Seawolf: Blooming and hot spots eliminated

In very dark scenes, Seawolf avoids image hot spots and captures clear highlight and shadow detail in black and white.

dim.

CCD: slow shutter modes blur critical detail

vs.

Pixim Seawolf: Color maintained with no blur

Cameras powered by Seawolf capture critical details and true color in difficult, dimly lit scenes, avoiding color fade common with analog CCD cameras.

mixed.

CCD: Lost detail in areas with mixed lighting

vs.

Pixim Seawolf: Detail clearly visible

Seawolf cameras adjust to highlights and lowlights in the same scene, a necessity in security applications where light sources are directly visible to the camera.

indoor.

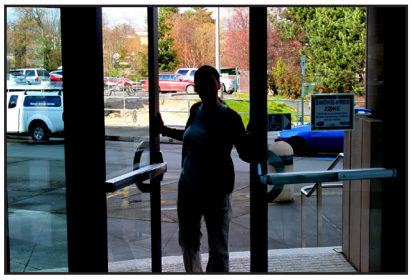
CCD: Saturated highlights; detail loss

vs.

Pixim Seawolf: Accurate highlights; detail captured

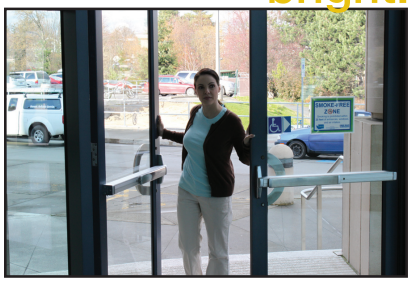
Seawolf-powered cameras deftly handle any indoor lighting situation from offices and hallways to darkened storerooms—right out of the box!

bright.



CCD: Can't maintain detail in dark and bright areas

vs.



Pixim Seawolf: Indoor and outdoor detail clearly visible

Seawolf outperforms the competition in backlit scenes capturing both shadow and highlight details as well as eliminating glare and smear even in the brightest light.

CLINTON Electronics
www.clintonelectronics.com

Powered by PIXIM SEAWOLF 690 HTVL Effective

CLINTON Electronics

AC24V POWER SUPPLIES

CE-24AC4-4

Multiple Camera Power Supply

- 4 Camera
- 4 Amp
- UL Listed

CE-24AC9-4

Multiple Camera Power Supply

- 9 Camera
- 4 Amp
- UL Listed

CE-24AC16-8

Multiple Camera Power Supply

- 16 Camera
- 8 Amp
- UL Listed

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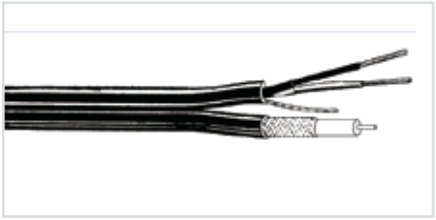
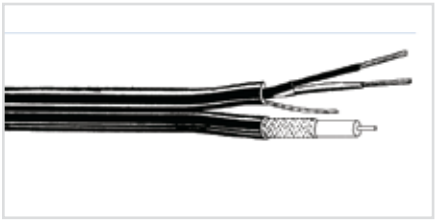


RG59U – CSA – FT-1 & FT-4 – Siamese

- Coaxial – 95% Braided Bare Copper Shield
- Foam Polyethelene Dielectric
- 20 AWG Solid Bare Copperweld Conductor
- PVC Jacket – Black, White
- 5934LT – Low Temperature -40° C
- Control – Stranded Tinned Copper Conductors
- Conductors Twisted
- Polyethelene Insulation
- 100% Aluminum Foil Shield
- 20 AWG Stranded Tinned Copper Drain Wire
- Colour Code 2c – Black, White
- Colour Code 4c – Black, White, Red, Green

Cat. No.	No. Cond.	Cond. Size	Cond. Strand	Shield	Nom. Imp. (Ohms)	Nominal O.D.	Put-Up Meters	Weight lbs.	Rating
5934	2	18	16x30	100% Foil					**FT-1**
	1	20	Solid	95% Braid	75	.242" x .480"	300/150	60/30	**FT-1**
5934A	2	18	16x30	100% Foil					**FT-4**
	1	20	Solid	95% Braid	75	.242" x .480"	300/150	60/30	**FT-4**
5934LT	2	18	16x30	100% Foil					**FT-1**
(Low Temp.)	1	20	Solid	95% Braid	75	.242" x .480"	300/150	60/30	**FT-1**
5934BCA	2	18	16x30	100% Foil					**FT-4**
(Bare Copper)	1	20	Solid	95% Braid	75	.242" x .480"	300/150	60/30	**FT-4**
5948A	4	18	16x30	100% Foil					**FT-4**
	1	20	Solid	95% Braid	75	.242" x .560"	300/150	88/45	**FT-4**
59214	2	22	7x30	100% Foil					**FT-1**
	1	20	Solid	95% Braid	75	.242" x .330"	300/150	58/29	**FT-1**
59214A	2	22	7x30	100% Foil					**FT-4**
	1	20	Solid	95% Braid	75	.242" x .330"	300/150	58/29	**FT-4**
5907/214	2	22	7x30	100% Foil					**FT-4**
	1	25	Solid	95% Braid	75	.166" x .330"	300/150	56/28	**FT-4**



RG6U – CSA – FT-1 & FT-4 – Siamese

- Coaxial – 95% Braided Bare Copper Shield
- Foam Polyethelene Dielectric
- 18 AWG Solid Bare Copper Conductor
- PVC Jacket – Black, White
- Control – 18 AWG, 2c
- Stranded Tinned Copper Conductors
- Conductors Twisted
- Polyethelene Insulation
- 100% Aluminum Foil Shield
- 20 AWG Stranded Tinned Copper Drain Wire
- Colour Code – Black, White

Cat. No.	No. Cond.	Cond. Size	Cond. Strand	Shield	Nom. Imp. (Ohms)	Nominal O.D.	Put-Up Meters	Weight lbs.	Rating
5634	2	18	16x30	100% Foil					**FT-1**
	1	18	Solid	95% Braid	75	.274" x .480"	300/150	90/45	**FT-1**
5634A	2	18	16x30	100% Foil					**FT-4**
	1	18	Solid	95% Braid	75	.274" x .480"	300/150	90/45	**FT-4**

Cat-5E 350 MHz & Cat-6 FT-4 & FT-6 & Outdoor Direct Burial

Cat-5E & Cat-6 Cable – Unshielded, Shielded, Solid, & Stranded – CSA – FT-4

- Solid or Stranded Bare Copper Conductors
- Twisted Pairs
- Polyolefin Insulation – Ripcord
- PVC Jacket
- Cat-5E Shield – Blue, Black, White, Yellow
- Cat-6 Shield – Blue
- Cat-5E Stranded – Blue, Grey, White, Yellow
- Cat-5E – Blue, Black, Grey, Orange, Red, Violet, White, Yellow
- Cat-6 – Blue, Black, Green, Orange, Red, White, Yellow

Cat. No.	No. Pairs	Cond. Size	Cond. Strand	Nominal O.D.	MHz	Cat.	Put-Up Meters	Weight lbs.
24404L5E-350	4	24	Solid	.242"	350	5E	300	28/14
	100% Aluminum Foil Shield							
24104L5E-350	4	24	Solid	.235"	350	5E	300	26/13
24744L5E-350	4	24	7x32	.240"	350	5E	300	28/14
24104L6	4	23	Solid	.250"	550	6	300	28/14
24404L6	4	23	Solid	.260"	550	6	300	30/15
	100% Aluminum Foil Shield							

Cat-5E 350 MHz & Cat-6 Cables – Unshielded & Shielded – CSA – FT-6 – Plenum

- Solid Bare Copper Conductor
- Twisted Pairs
- FEP Insulation
- Plenum PVC Jacket
- Cat-5E-350 Jacket Colours – Blue, Red, White, Yellow
- Cat-6 Jacket Colours – Blue, Yellow

Cat. No.	No. Pairs	Cond. Size	Cond. Strand	Nominal O.D.	MHz	Cat.	Put-Up Meters	Weight lbs.
9924104L5E-350	4	24	Solid	.18"	350	5E	300	26/13
9924104L6	4	23	Solid	.18"	550	6	300	28/14
9924404L6	4	23	Solid	.20"	550	6	300	30/15
	100% Aluminum Foil Shield							

Cat-5E 350 MHz & Cat-6 UTP Cables – Outdoor Direct Burial

- Solid Twisted Pairs
- -40° C + 80° C, UV Resistant
- High Density Polyethelene Jacket
- Jacket – Black

Cat. No.	No. Pairs	Cond. Size	Cond. Strand	Nominal O.D.	MHz	Cat.	Put-Up Meters	Weight lbs.
8824104L5E-350	4	24	Solid	.2"	350	5E	300	26/13
8824404L5E-350	4	24	Solid	.232"	350	5E	300	28/14
	100% Aluminum Foil Shield							
8824104L5E350-FL (Flooded)	4	24	Solid	.2"	350	5E	300	26/13
8824104L6	4	23	Solid	.2"	550	6	300	28/14

Cat-5E 350 MHz – Outdoor with Messenger

- Solid Twisted Pairs
- -40° C + 80° C, UV Resistant
- 0.072" Steel Messenger
- Low-Temperature PVC Jacket – Black

Cat. No.	No. Pairs	Cond. Size	Cond. Strand	Nominal O.D.	MHz	Cat.	Put-Up Meters	Weight lbs.
24104L5E350-LTM	4	24	Solid	.2"	350	5E	300	48/26
(Messenger)	1	.072" Steel Messenger						